

**Amendments to the Claims:**

This listing of claims will replace all prior version, and listings, of claims in the application:

**Listing of Claims:**

1-10. (Canceled).

11. (New) A window-integrated antenna for a vehicle, comprising:

a heating conductor field, which is provided for FM reception and LMS reception; and  
at least one decoupling element for the FM reception which has a high-frequency, low-resistance, and non-galvanic connection to the heating conductor field.

12. (New) The window-integrated antenna of claim 11, wherein the decoupling element for the FM reception includes at least one conductor situated essentially parallel to at least one boundary of the heating conductor field which is not formed by a busbar for the heating conductor field.

13. (New) The window-integrated antenna of claim 11, wherein the decoupling element is arranged as to at least one of its length and position so that a resonant impedance behavior occurs in the FM frequency range at its connection end.

14. (New) The window-integrated antenna of claim 11, wherein antenna conductors are situated in the heating conductor field essentially perpendicularly to heating conductors of the heating conductor field and are galvanically linked to the heating conductors.

15. (New) The window-integrated antenna of claim 14, wherein the antenna conductors are arranged as to at least one of their length and position so that a resonance behavior of the antenna occurs at a connection end of the decoupling element in the FM range.

16. (New) The window-integrated antenna of claim 11, further comprising:

at least one further decoupling element for a different frequency range.

17. (New) The window-integrated antenna of claim 16, wherein the decoupling element for the FM reception and the at least one further decoupling element are galvanically connected at their connection ends.
18. (New) The window-integrated antenna of claim 11, wherein multiple decoupling elements for the FM reception and further decoupling elements for other frequency ranges are connected to a diversity switching device.
19. (New) The window-integrated antenna of claim 11, wherein a plurality of decoupling elements including the decoupling element for the LMS reception are connected to a shared module carrier.
20. (New) The window-integrated antenna of claim 11, wherein a filter element is provided in a heating current circuit.